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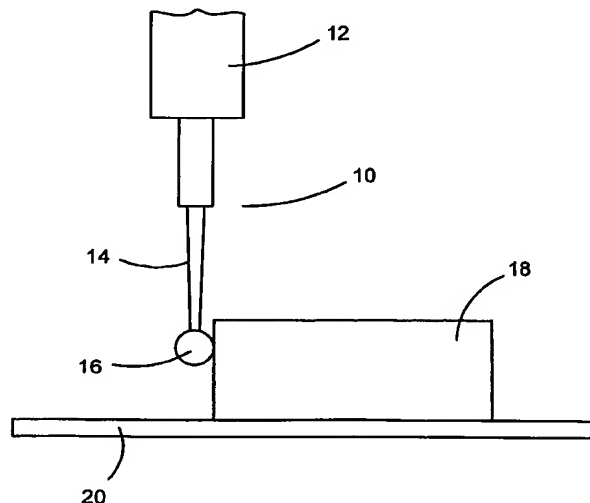
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(54) Title: METHOD OF CALIBRATING A SCANNING SYSTEM



(57) Abstract: A method of measuring an object on a coordinate positioning apparatus. A first object is placed on a coordinate positioning apparatus and measured with a workpiece contacting probe to create measurement data. The measurement data is collected at multiple stylus deflections or probe forces. For a plurality of points on the surface on the first object, the measurement data is extrapolated to that corresponding to zero stylus deflection or zero probe force. An error function or map is created from the measurement data and the extrapolated data. Subsequent objects are then measured using a known stylus deflection or known probe force and the error function or map is used to apply an error correction to these measurements.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01B21/04

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 25087 A (RENISHAW PLC ;SUTHERLAND ALEXANDER TENNANT (GB); WRIGHT DAVID ALLA) 4 May 2000 (2000-05-04) abstract; figure 2 page 5	1,2
Y		8
A		6,7,9
Y	US 2001/025427 A1 (HELD TOBIAS ET AL) 4 October 2001 (2001-10-04) abstract; figures 1,2 paragraph '0050!	8
A	US 6 131 301 A (SUTHERLAND ALEXANDER T) 17 October 2000 (2000-10-17) abstract; figures 1-4	1,6-9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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